

PATENT APPLICATION

WHAT IS CLAIMED IS:

- 1           1.    A device-initiated image processing transaction  
2    method, comprising the steps of:  
3                capturing an image by at least one imaging  
4    appliance; and  
5                initiating by said at least one imaging appliance  
6    a transaction session with an image processing service  
7    provider coupled to said at least one imaging appliance via  
8    a network for effectuating one of an image push operation  
9    whereby said image is transmitted to said image processing  
10   service provider for processing in a select manner by a host  
11   processing engine co-located thereat and a pull operation  
12   whereby said host processing engine is downloaded for locally  
13   processing said image in said select manner.

PATENT APPLICATION

1           2.    The method as set forth in claim 1, wherein said at  
2   least one imaging appliance is selected from the group  
3   consisting of a digital camera, a scanner, a hand-held  
4   Optical Character Recognition (OCR) reader, a camcorder, and  
5   a device using a predetermined portion of the electro-  
6   magnetic spectrum for image capture.

1           3.    The method as set forth in claim 1, wherein said  
2   host processing engine comprises an image compression  
3   algorithm.

1           4.    The method as set forth in claim 1, wherein said  
2   host processing engine comprises an image decompression  
3   algorithm.

1           5.    The method as set forth in claim 1, wherein said  
2   host processing engine comprises an image formatting  
3   algorithm.

1           6.    The method as set forth in claim 1, wherein said  
2   host processing engine comprises an image translation  
3   algorithm.

1           7.    The method as set forth in claim 1, wherein said  
2   host processing engine comprises an image transformation  
3   algorithm.

PATENT APPLICATION

1        8. The method as set forth in claim 1, further  
2 comprising the step of generating a transformed image by said  
3 image processing service provider after processing said image  
4 in said select manner.

1        9. The method as set forth in claim 8, further  
2 comprising the step of transmitting said transformed image  
3 directly to a third-party node disposed on said network.

1        10. The method as set forth in claim 9, wherein said  
2 step of transmitting said transformed image is effectuated  
3 via broadband transmission.

1        11. The method as set forth in claim 8, further  
2 comprising the step of retrieving said transformed image by  
3 said at least one imaging appliance.

1        12. The method as set forth in claim 1, further  
2 comprising the step of generating a transformed image by said  
3 at least one imaging appliance after processing said image in  
4 said select manner by using said host processing engine  
5 downloaded from said image processing service provider.

1        13. The method as set forth in claim 12, further  
2 comprising the step of transmitting said transformed image to  
3 a third-party node disposed on said network.

1        14. The method as set forth in claim 13, wherein said  
2 step of transmitting said transformed image is effectuated  
3 via broadband transmission.

1        15. A device-initiated image processing transaction  
2 system, comprising:

3                means for capturing an image by at least one  
4 imaging appliance;

5                means for initiating by said at least one imaging  
6 appliance a transaction session with an image processing  
7 service provider coupled to said at least one imaging  
8 appliance via a network; and

9                means for effectuating one of an image push  
10 operation whereby said image is transmitted to said image  
11 processing service provider for processing in a select manner  
12 by a host processing engine co-located thereat and a pull  
13 operation whereby said host processing engine is downloaded  
14 for locally processing said image in said select manner.

PATENT APPLICATION

1        16. The system as set forth in claim 15, further  
2 comprising means for determining whether said at least one  
3 imaging appliance includes a local processing engine capable  
4 of processing said image in said select manner.

1        17. The system as set forth in claim 15, wherein said  
2 at least one imaging appliance is selected from the group  
3 consisting of a digital camera, a scanner, a hand-held  
4 Optical Character Recognition (OCR) reader, a camcorder, and  
5 a device using a predetermined portion of the electro-  
6 magnetic spectrum for image capture.

1        18. The system as set forth in claim 15, wherein said  
2 host processing engine comprises at least one of an image  
3 compression algorithm, an image decompression algorithm, an  
4 image translation algorithm, an image transformation  
5 algorithm and an image formatting algorithm.

PATENT APPLICATION

1        19. A computer-readable medium operable with an imaging  
2        appliance disposed in a network, said computer-readable  
3        medium carrying a sequence of instructions which, when  
4        executed by a processing subsystem associated with said  
5        imaging appliance, causes the following steps to be  
6        performed:

7                if said imaging appliance does not include a local  
8        processing engine capable of processing an image captured by  
9        said imaging appliance in a select manner, initiating by said  
10       imaging appliance a transaction session with an image  
11       processing service provider coupled to said at least one  
12       imaging appliance via said network; and

13               effectuating one of an image push operation whereby  
14       said image is transmitted to said image processing service  
15       provider for processing in said select manner by a host  
16       processing engine co-located thereat and a pull operation  
17       whereby said host processing engine is downloaded for locally  
18       processing said image by said imaging appliance in said  
19       select manner.

1           20. The computer-readable medium as set forth in claim  
2 19, wherein said at least one imaging appliance is selected  
3 from the group consisting of a digital camera, a scanner, a  
4 hand-held Optical Character Recognition (OCR) reader, a  
5 camcorder, and a device using a predetermined portion of the  
6 electro-magnetic spectrum for image capture.

1           21. The computer-readable medium as set forth in claim  
2 19, wherein said host processing engine comprises at least  
3 one of an image compression algorithm, an image decompression  
4 algorithm, an image translation algorithm, an image  
5 transformation algorithm and an image formatting algorithm.

1           22. The computer-readable medium as set forth in claim  
2 19, further including an additional sequence of instructions  
3 executable on said processing system for performing the step  
4 of generating a transformed image by said at least one  
5 imaging appliance after processing said image in said select  
6 manner by using said host processing engine downloaded from  
7 said image processing service provider.

PATENT APPLICATION

1           23. The computer-readable medium as set forth in claim  
2 22, further including an additional sequence of instructions  
3 executable on said processing system for performing the step  
4 of transmitting said transformed image to a third-party node  
5 disposed on said network.

1           24. The computer-readable medium as set forth in claim  
2 23, wherein said step of transmitting said transformed image  
3 is effectuated via broadband transmission.